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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,393	08/27/2003	Kenichi Mitsumori .	9281-4664	6750
7:	590 09/07/2006		EXAM	INER
Gustavo Siller, Jr.			STINSON, FRANKIE L	
BRINKS HOFER GILSON & LIONE P.O. BOX 10395			ART UNIT	PAPER NUMBER
CHICAGO, IL 60610			1746	
			DATE MAILED: 09/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	A N					
	Application No.	Applicant(s)				
Office Action Summary	10/650,393	MITSUMORI ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAIL ING DATE of the	FRANKIE L. STINSON	1746				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
_Status						
1) Responsive to communication(s) filed on 24 Ju	<u>ıly 2006</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
	) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>16-19 and 27-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>16-19 and 27-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	,					
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

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- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 27, 16, 17, 19, 28, 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Germany'854 (Germany 41 07 854) in view of either Faidley (U. S. Pat. No. 2,896,649) or Umezawa (U. S. Pat. No. 4,740,726).

  Re claim 27, Germany'854 is cited disclosing a wet treatment nozzle comprising: an ultrasonic cleaner comprising a housing, an ultrasonic transducer (12) placed on a bottom surface of the housing.

an introduction passage (8) for introducing a treatment liquid on a side of the ultrasonic cleaner,

an exhaust passage (8) which exhausts the treatment liquid on an other side of the ultrasonic cleaner after a wet treatment of an object to be treated, the exhaust passage exhausting the treatment liquid that wet treated the object,

wherein the ultrasonic cleaner, while vibrating, guides the treatment liquid to wet treat the object to be treated,

wherein a pressure controller maintains a difference between a pressure treatment liquid in contact with the object to be treated and an atmospheric pressure, so that the treatment liquid wet treats only a portion of the object to be treated to which the treatment liquid is supplied (inherent see translation, page 2, lines 13-16), that differs

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from the claim only in the recitation of the weight on the housing with the weight minimizing propagation of energy from the ultrasonic transducer to a wall of the housing by shifting the characteristic frequency of the wall of the housing, The patents to Faidley and Umezawa are each cited disclosing transducer, where the transducers are provided with a weight, (Faidley, col. 1, lines 53-57 and Umezawa, claim 9). It therefore would have been obvious to one having ordinary skill in the art to modify the ultrasonic cleaner in Germany'854, to include a weight as taught by Faidley or Umezawa for the purpose of increasing the efficiency and stability of the transducer and the efficacy of the sonic was transmission. Re claims 16, 17 and 19, to position the weight at various location including wall thickness, is deemed to be an obvious matter of design in that the weight as taught by either Faidley or Umezawa, is considered to be the functional equivalence of each other (see MPEP 12144.06). Re claim 28, Germany'854 discloses the shape. Re claim 29, the same is deemed to be inherent in Davidson as proposedly modified. Re claim 30, Germany'854 discloses the contact portion.

3. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over the applied prior art as applied to claim 27 above, and further in view of Eppes (U. S. Pat. No. 4,764,021).

Claim 18 defines over the applied prior art only in the recitation of the weighted housing. Eppes is cited disclosing the weighted housing (see col. 2, lines 14-17) providing stabilization as claimed. It therefore would have been obvious to one having ordinary skill in the art to modify the arrangement of Germamny'854, to be as taught by Eppes, for the purpose of efficiently employing the wave energy.

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4. Applicant's arguments with respect to the pending claims have been considered

but are moot in view of the new ground(s) of rejection.

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to FRANKIE L. STINSON whose telephone number is

(572) 272-1308. The examiner can normally be reached on M-F from 5:30 am to 2:00

pm and some Saturdays from approximately 5:30 am to 11:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Barr, can be reached on (571) 272-1700. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

fls

FRANKIE L. STINSON
Primary Examiner

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